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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/573,541	03/27/2006	Andreas Jurisch	2003P11715	7296
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EXAMINER				
HOLLINGTON, JERMELE M				
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/573,541

**Applicant(s)**

JURISCH, ANDREAS

**Examiner**

Jermele M. Hollington

**Art Unit**

2829

**Period for Reply** -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 15 April 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 26-50 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 26-35 is/are allowed.
- 6) ☐ Claim(s) 36-47 and 50 is/are rejected.
- 7) ☐ Claim(s) 48-49 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-8508)
- Paper No(s)/Mail Date \_\_\_\_\_

- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Response to Arguments***

1. Applicant's arguments, filed April 15, 2008, with respect to the rejection(s) of claim(s) 26-35 under 35 USC 102 have been fully considered and are persuasive. However, the rejection(s) of claim(s) 36-47 and 50 under 35 USC 102 have been fully considered but are not persuasive.

The applicants' argue: *"As such, among other limitations, Applicant's claims require a correction element having a transfer function that is inverse to a transfer function of a measuring circuit wherein the transfer function of an electronic filter acting as a correction element is adjusted to match the transfer function of the measuring circuit. Applicant respectfully disagrees that the above-discussed features of Applicant's claims are taught or suggested by WATANABE."*

In response to the above, regarding claims 36-47 and 50, the examiner believes the prior art still reads on the claimed invention. In MPEP 2114, it states that while features of an apparatus may be recited either structurally or functionally, claims directed to an apparatus must be distinguished from the prior art in terms of structure rather than function alone. Further, a recitation directed to the manner in which a claimed apparatus is intended to be used does not distinguish the claimed apparatus from the prior art.

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(c) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this

subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 36-47 and 50 are rejected under 35 U.S.C. 102(e) as being anticipated by Watanabe et al (20020171433).

Regarding claim 36, Watanabe et al disclose [see Fig. 7] a measuring apparatus (measuring apparatus 600) for measuring a voltage at a point in a power distribution network (sheathed power cable 50), the measuring apparatus (600) comprising: a measuring circuit (voltage converting means 100) having a voltage sensor (capacitances 11 and 12) coupled to a current-carrying conductor (cable conductor) of the power distribution network (50) [see paragraph [0057] and last line of paragraph [0053]], and a further-processing configuration (microcomputer 650) connected to said voltage sensor, said further-processing configuration (650) having an output outputting a measured voltage value (effective voltage value) as an output signal; and an electronic filter (correction apparatus 800) functioning as a correction element and having an output side connected to said measuring circuit (100) [via item 650], said correction element (800) receiving the output signal (effective voltage value) from said measuring circuit (100) and outputting a corrected measured value (gain coefficient), said correction element (800) having a transfer function being inverse to a transfer function of said measuring circuit (100) [via item 650], and it being possible for the transfer function of said correction element (800) to be adjusted to match it to the transfer function of said measuring circuit (100).

Regarding claim 37, Watanabe et al disclose said voltage sensor (11 and 12) is a capacitor device [see paragraph [0056]-[0057]].

Regarding claim 38, Watanabe et al disclose said capacitor device (11 and 12) is a coupling capacitor (11) formed from the current-carrying conductor of the power distribution network (50) [see paragraph [0055]] and an electrode which is DC-isolated from said current-carrying conductor (cable conductor) [see [0055]-[0057]].

Regarding claim 39, Watanabe et al disclose said electrode of said coupling capacitor (11) is a ring electrode surrounding the current-carrying conductor [see Fig. 5a-5b].

Regarding claim 40, Watanabe et al disclose said voltage sensor (11 and 12) is an inductive voltage transformer having a primary side connected to the current-carrying conductor (50).

Regarding claim 41, Watanabe et al disclose said correction element (800) has a switch (823) for optionally bypassing a remainder of said correction element (800).

Regarding claim 42, Watanabe et al disclose said measuring circuit (100) outputting an analog output signal (113) as the output signal and said correction element (800) is an analog filter [via item 821] having a PID characteristic.

Regarding claim 43, Watanabe et al disclose said measuring circuit (100) outputting a digital output signal (113) as the output signal and said correction element (800) is a digital filter [via item 821].

Regarding claim 44, Watanabe et al disclose the transfer function (822) of said digital filter (800) is a temporally discrete transfer function.

Regarding claim 45, Watanabe et al disclose the temporally discrete transfer function (800) of said digital filter has variable coefficients (gain coefficient).

Regarding claim 46, Watanabe et al disclose said further-processing configuration (650) has an input region (computation of effective value 653) and a DC isolating element in said input region (653).

Regarding claim 47, Watanabe et al disclose said DC isolating element [inside item 653] is an inductive current transformer.

Regarding claim 50, Watanabe et al disclose said further-processing configuration (650) has an analog-to-digital converter (A/D converter 651) on said output side.

### ***Conclusion***

3. Claims 26-35 are allowed.
4. Claims 48-49 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
5. The following is a statement of reasons for the indication of allowable subject matter: regarding claim 26, the primary reason for the allowance of the claim is due to a method for measuring a voltage at a point in a power network comprising, in combination with other limitations, a correction element having a transfer function being inverse to a transfer function of a measuring circuit and adjusting the transfer function of an electronic filter to match the transfer function of the measuring circuit. Since claims 27-35 depend from claim 26, they also have allowable subject matter.

Regarding claim 48, the primary reason for the allowance of the claim is due further-processing configuration has a resistor with a high resistance value and a voltage sensor has an output side connected to a series circuit. Since claim 49 depends from claim 48, it also has allowable subject matter.

Base on the above arguments and rejection, the following is being applied.

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jermele M. Hollington whose telephone number is (571) 272-1960. The examiner can normally be reached on M-F (9:00-4:00 EST) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ha Nguyen can be reached on (571) 272-1678. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jermele M. Hollington  
Primary Examiner  
Art Unit 2829

/J. M. H./  
July 17, 2008